S14 Table. One-way ANOVA and Duncan grouping to assess β -diversity at different levels based on OTUs for experiment II.

	Data size ^a	With singletons				Singletons removed			
		Sorensen		Bray-Curtis		Sorensen		Bray-Curtis	
		β diversity ^b	Significance ^c						
At technical replicate level	54	0.531	d	0.361	d	0.513	e	0.354	d
At biological replicate level within runs	54	0.554	c	0.434	С	0.535	d	0.425	С
At biological replicate level among runs	108	0.558	c	0.442	С	0.541	d	0.436	С
Between treatments (Planted/ unplanted) within locations	243	0.588	b	0.489	b	0.572	c	0.482	b
Among planted across locations	243	0.646	a	0.561	a	0.630	b	0.556	a
Among unplanted across locations	243	0.651	a	0.568	a	0.639	a	0.564	a

^a Data sizes (n) are the number of data points of the pairwise comparisons within the technical replicates, biological replicates, or treatments.

 $^{^{\}text{b}}$ We calculate two popular β -diversity dissimilarity measurements, Sorensen and Bray-Curtis, in which Sorensen dissimilarity is based on OTUs richness and Bray-Curtis dissimilarity takes OTUs abundance into account.

^c Significance at [pr(>F)] <0.05, using Duncan grouping method. a, b, c, d and e represent the significance of the β-diversity differences between technical replicates, biological replicates, and the treatments. a marks the highest β-diversity, the one less than the highest but not significant is still marked with a, then the ones significantly lower than the highest is marked with b, c, d, or e.